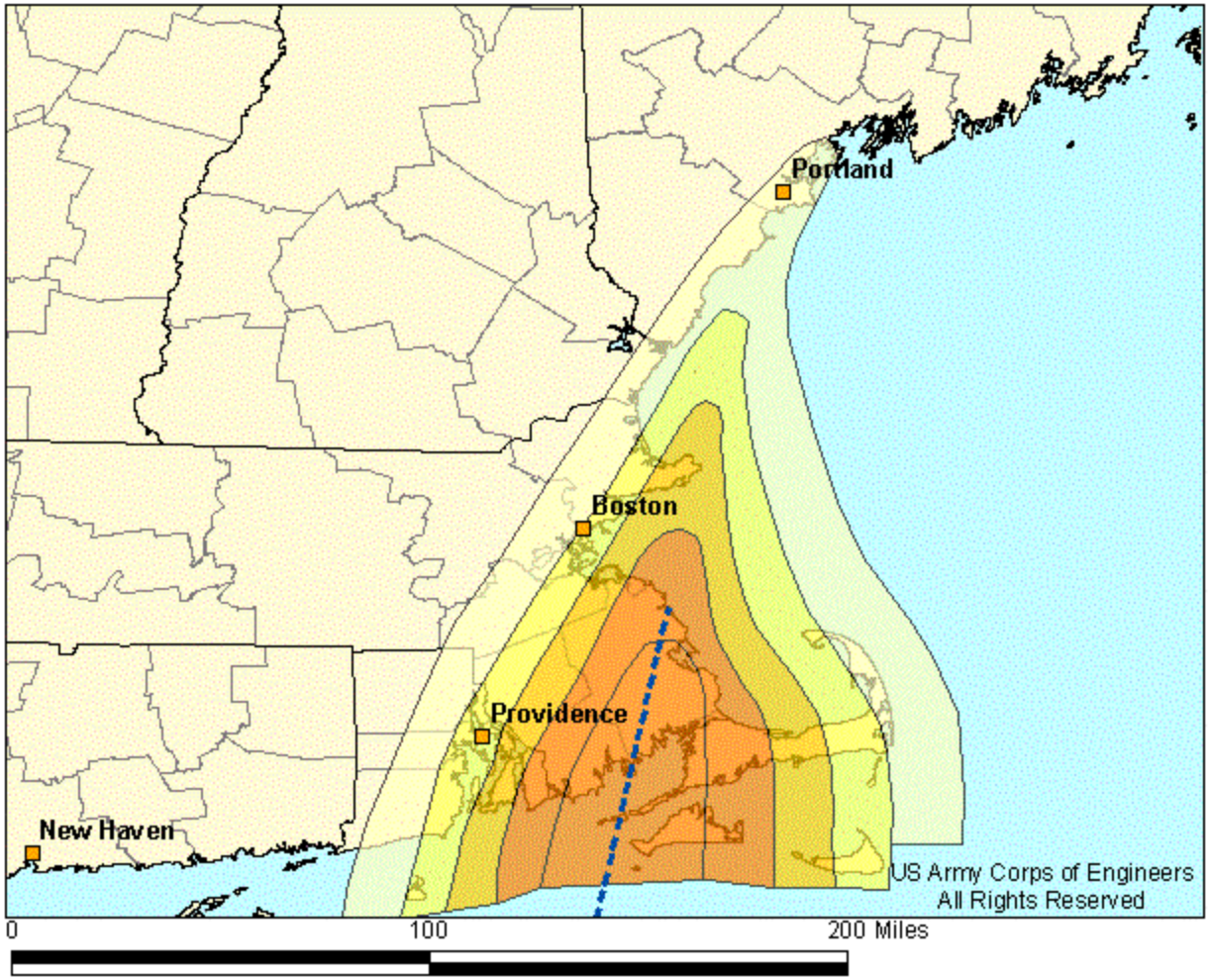
US Army Corps of Engineers

Hurricane NoName Projected Damage Areas

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

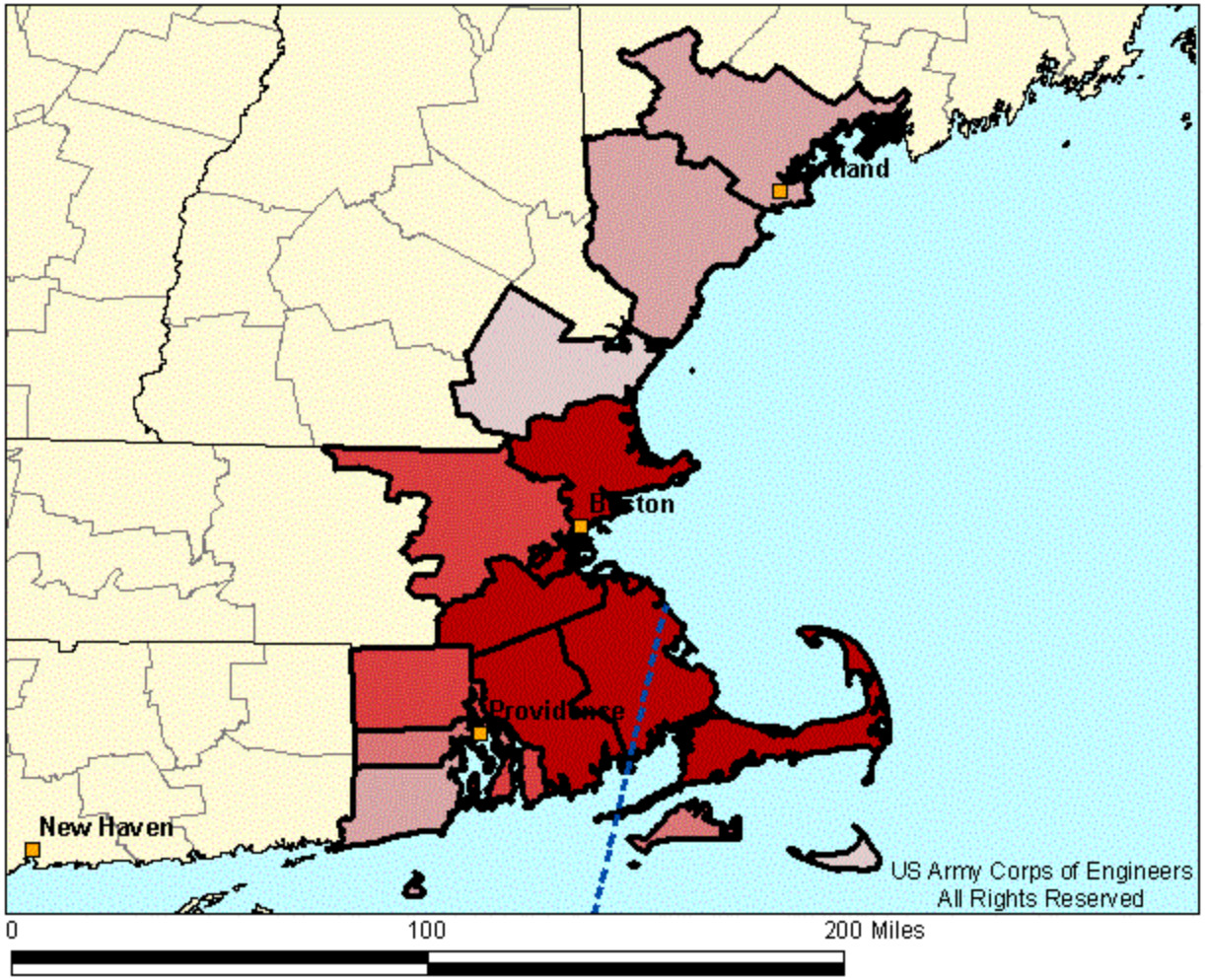
Hurricane NoName Projected Damage Areas	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 23

US Army Corps of Engineers

Hurricane NoName Debris Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

MA - 20,444,000 Yards
RI - 2,141,000 Yards
ME - 236,000 Yards
NH - 67,000 Yards

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName Debris Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName Debris Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Maine		Cumberland	134,000
		York	102,000
Maine	236,000		
Massachusetts		Barnstable	2,492,000
		Bristol	6,189,000
		Dukes	346,000
		Essex	1,176,000
		Middlesex	791,000
		Nantucket	35,000
		Norfolk	1,800,000
		Plymouth	6,220,000
		Suffolk	1,395,000
Massachusetts	20,444,000		
New Hampshire		Rockingham	67,000
New Hampshire	67,000		
Rhode Island		Bristol	256,000
		Kent	291,000
		Newport	678,000
		Providence	728,000
		Washington	188,000
Rhode Island	2,141,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Debris Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

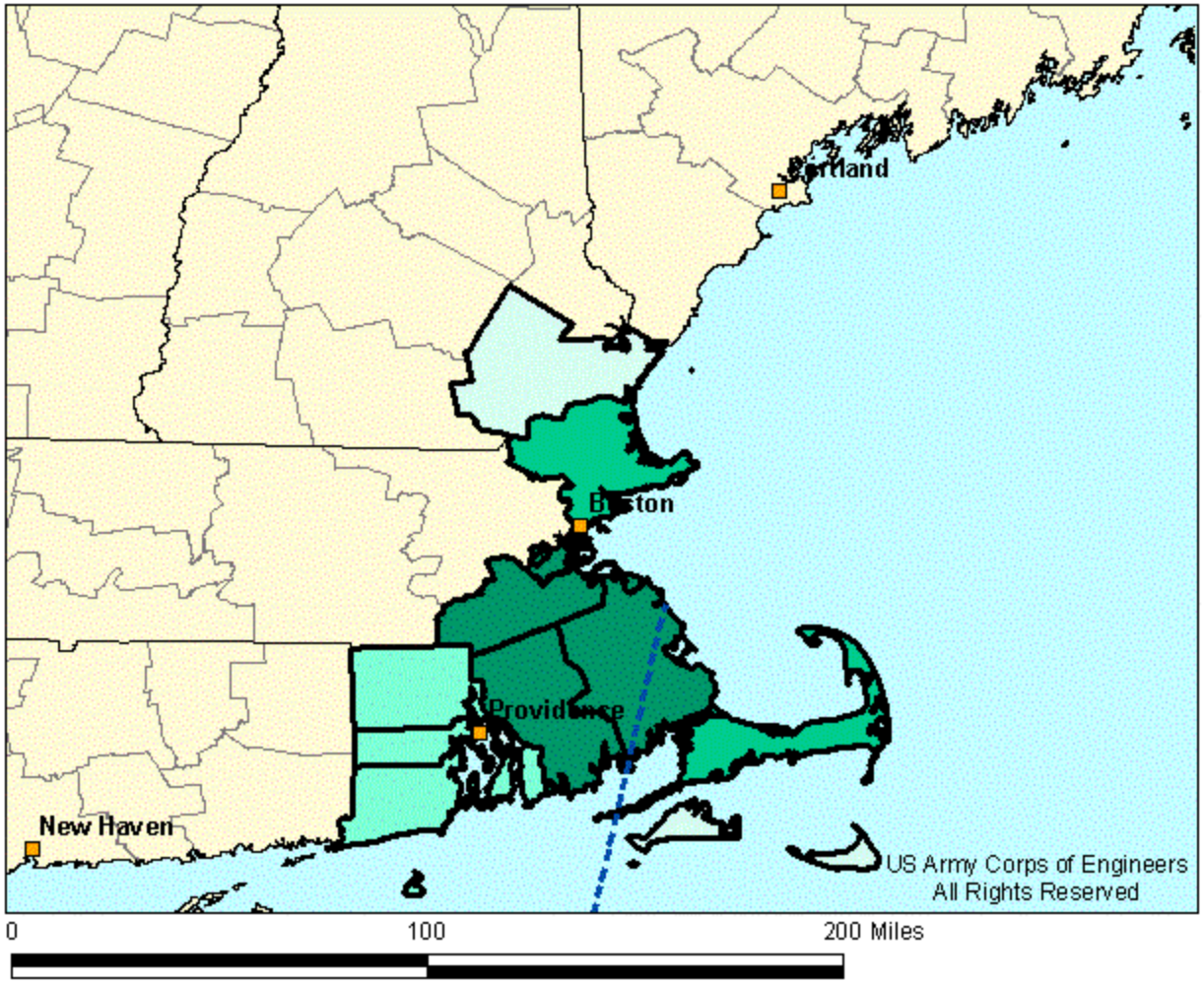
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName Commodities Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
MA – 39/78/156 Truckloads
RI – 8/15/29 Truckloads
NH – 1/1/1 Truckloads

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Commodities
- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC ***(1430 EDT 06/05/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName Commodities Model	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 23

US Army Corps of Engineers

Hurricane NoName Commodities Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Massachusetts		Barnstable	14
		Bristol	34
		Dukes	2
		Essex	20
		Nantucket	1
		Norfolk	23
		Plymouth	33
		Suffolk	29
Massachusetts	156		
New Hampshire		Rockingham	1
New Hampshire	1		
Rhode Island		Bristol	4
		Kent	6
		Newport	6
		Providence	8
		Washington	5
Rhode Island	29		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Commodities Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

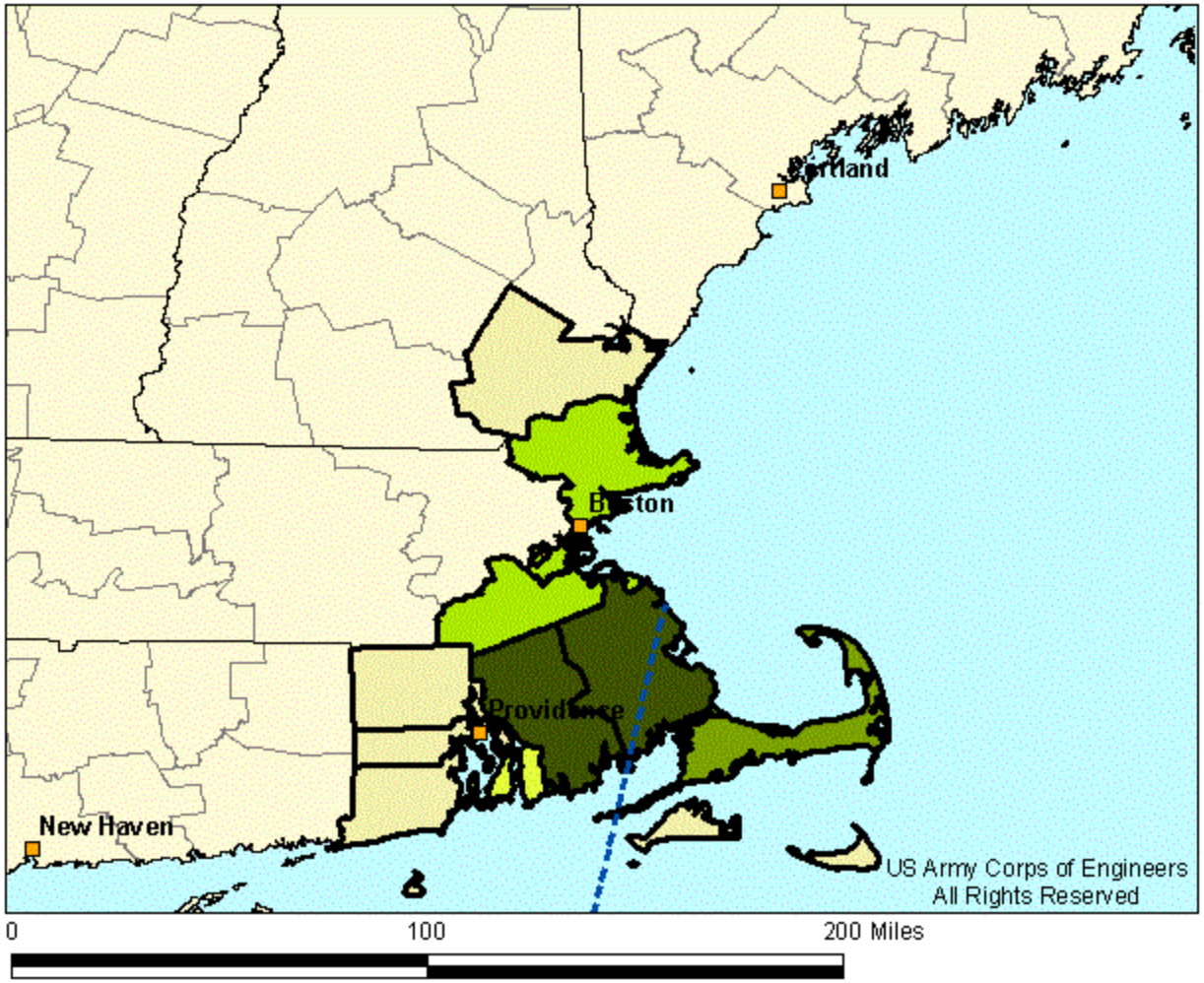
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Massachusetts - 54,400
Rhode Island - 6,500

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast. Temporary roofing is based on 3% in CAT 1, 6% in CAT 2 and 11% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 6 of 23

US Army Corps of Engineers

Hurricane NoName Temporary Roofing Model

For Planning Purposes Only!

Landfall Expected In About 24 Hours

State	House Units per State	County	House Units per County
Massachusetts		Barnstable	6,900
		Bristol	15,400
		Dukes	800
		Essex	4,200
		Nantucket	200
		Norfolk	5,700
		Plymouth	16,200
		Suffolk	5,000
Massachusetts	54,400		
New Hampshire		Rockingham	< 100
New Hampshire			
Rhode Island		Bristol	1,000
		Kent	1,000
		Newport	2,300
		Providence	1,400
		Washington	800
Rhode Island	6,500		

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2 and 11% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Roofing Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

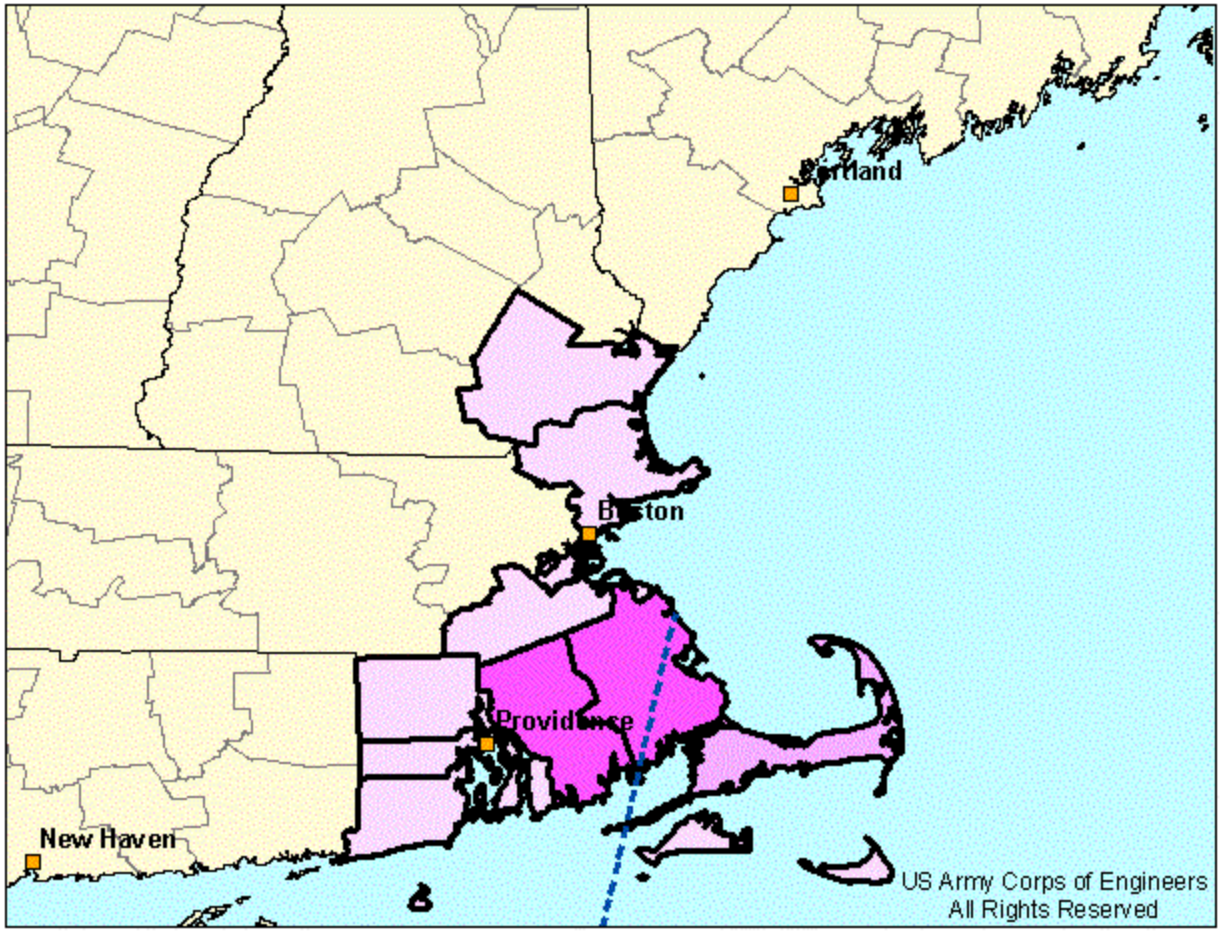
Sources:
HURREVAC
LRL-DEBRIS

Hurricane NoName Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Post Landfall Temporary Housing Model Results

Massachusetts - 19,200
Rhode Island - 2,400

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast. Temporary housing is based on 1% in CAT 1, 2% in CAT 2 and 4% in CAT 3.

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Hurricane NoName Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 23

US Army Corps of Engineers

Hurricane NoName Temporary Housing Model

For Planning Purposes Only!

Landfall Expected In About 24 Hours

State	House Units per State	County	House Units per County
Massachusetts		Barnstable	2,500
		Bristol	5,500
		Dukes	300
		Essex	1,400
		Nantucket	< 100
		Norfolk	2,000
		Plymouth	5,800
		Suffolk	1,700
Massachusetts	19,200		
New Hampshire		Rockingham	< 100
New Hampshire			
Rhode Island		Bristol	400
		Kent	400
		Newport	800
		Providence	500
		Washington	300
Rhode Island	2,400		

Temporary housing is based on 1% in CAT 1, 2% in CAT 2 and 4% in CAT 3.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Housing Model

Generated By:
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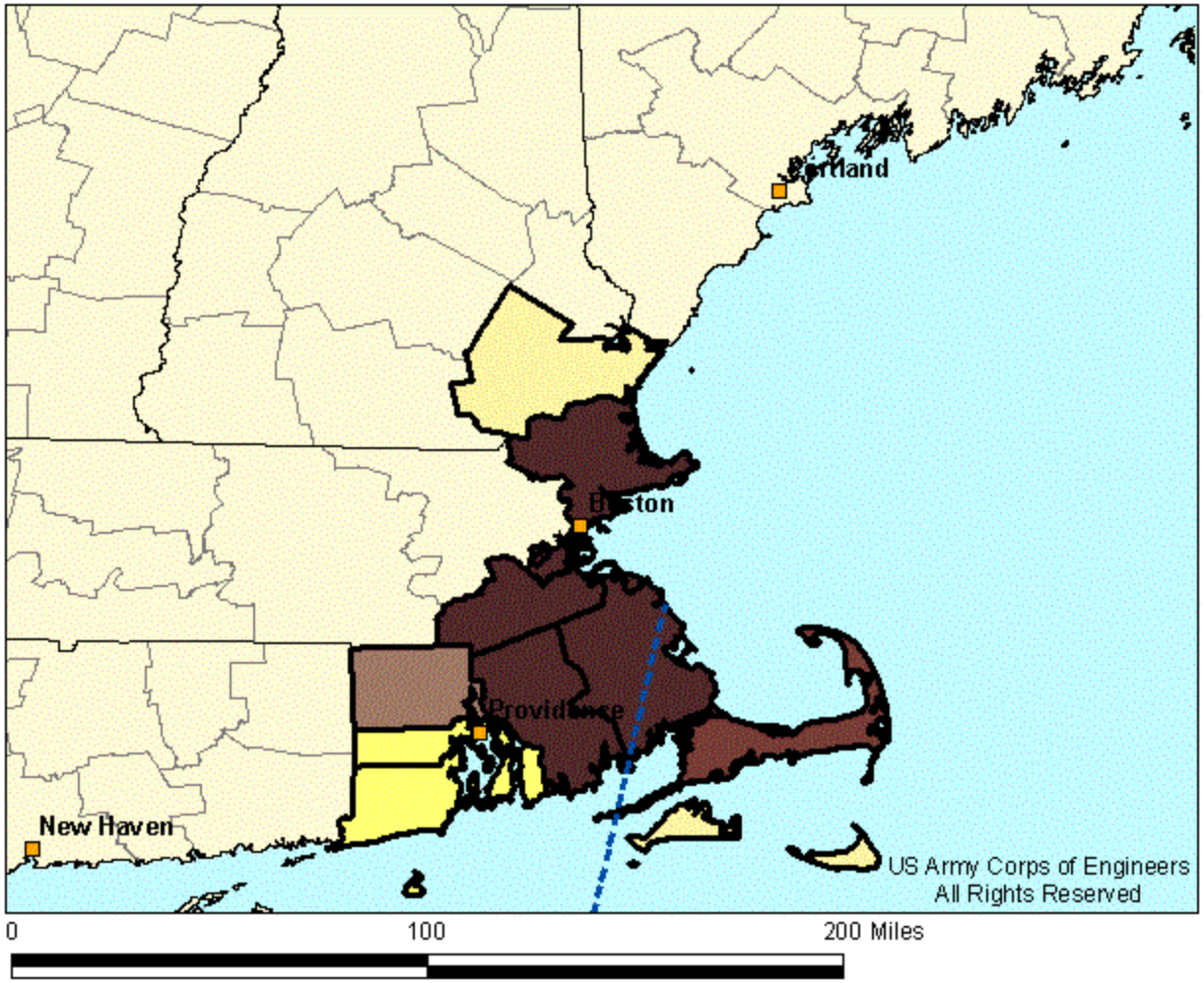
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName Population Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Massachusetts - 2,302,000
Rhode Island - 386,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName Population Model	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 23

US Army Corps of Engineers

Hurricane NoName Population Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Massachusetts		Barnstable	209,000
		Bristol	510,000
		Dukes	16,000
		Essex	299,000
		Nantucket	11,000
		Norfolk	340,000
		Plymouth	491,000
		Suffolk	426,000
Massachusetts	2,302,000		
New Hampshire		Rockingham	< 1,000
New Hampshire			
Rhode Island		Bristol	50,000
		Kent	78,000
		Newport	83,000
		Providence	114,000
		Washington	61,000
Rhode Island	386,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Population Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

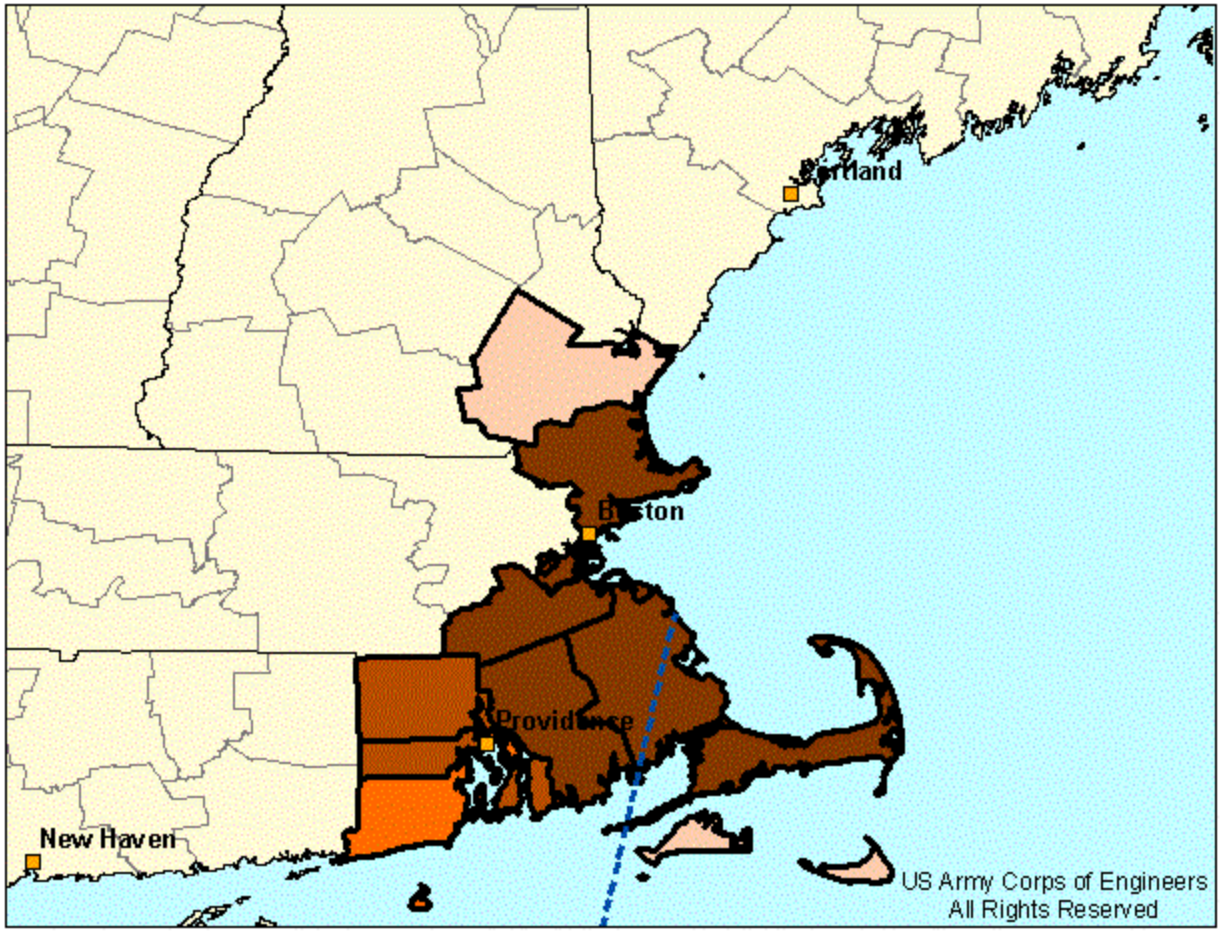
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName Households Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Post Landfall Households Model Results

Massachusetts - 890,000
Rhode Island - 157,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane NoName Households Model	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 23

US Army Corps of Engineers

Hurricane NoName Households Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Massachusetts		Barnstable	89,000
		Bristol	196,000
		Dukes	7,000
		Essex	120,000
		Nantucket	5,000
		Norfolk	134,000
		Plymouth	175,000
		Suffolk	164,000
Massachusetts	890,000		
New Hampshire		Rockingham	< 1,000
New Hampshire			
Rhode Island		Bristol	19,000
		Kent	32,000
		Newport	35,000
		Providence	47,000
		Washington	24,000
Rhode Island	157,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane NoName Households Model

Generated By:
Siemsen, LRL 1500 EDT 06/05/2008

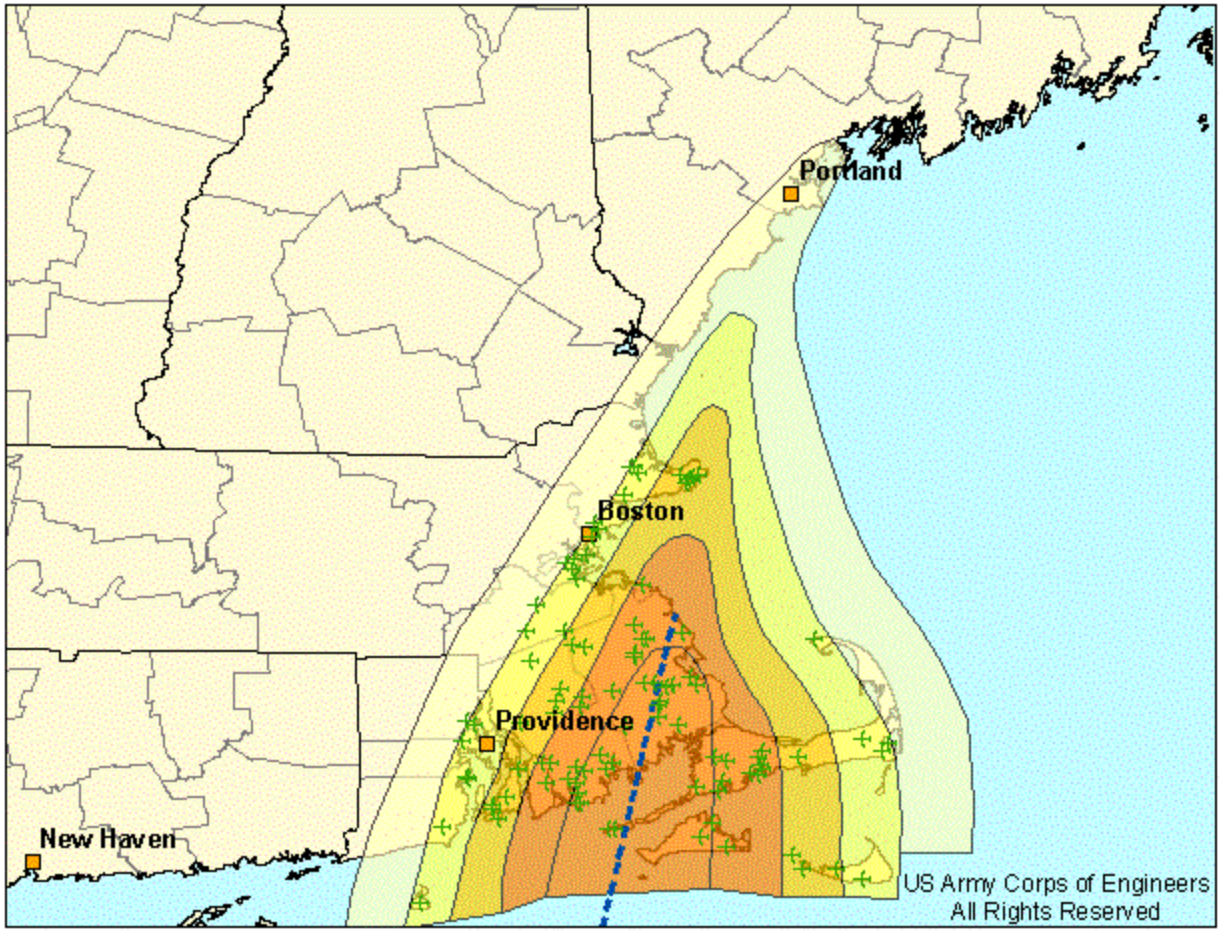
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane NoName Airports

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Airports

Forecast Track

Most Probable Landfall Airports Inside Hurricane Force Winds

Massachusetts - 86
Rhode Island - 14

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of airports included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

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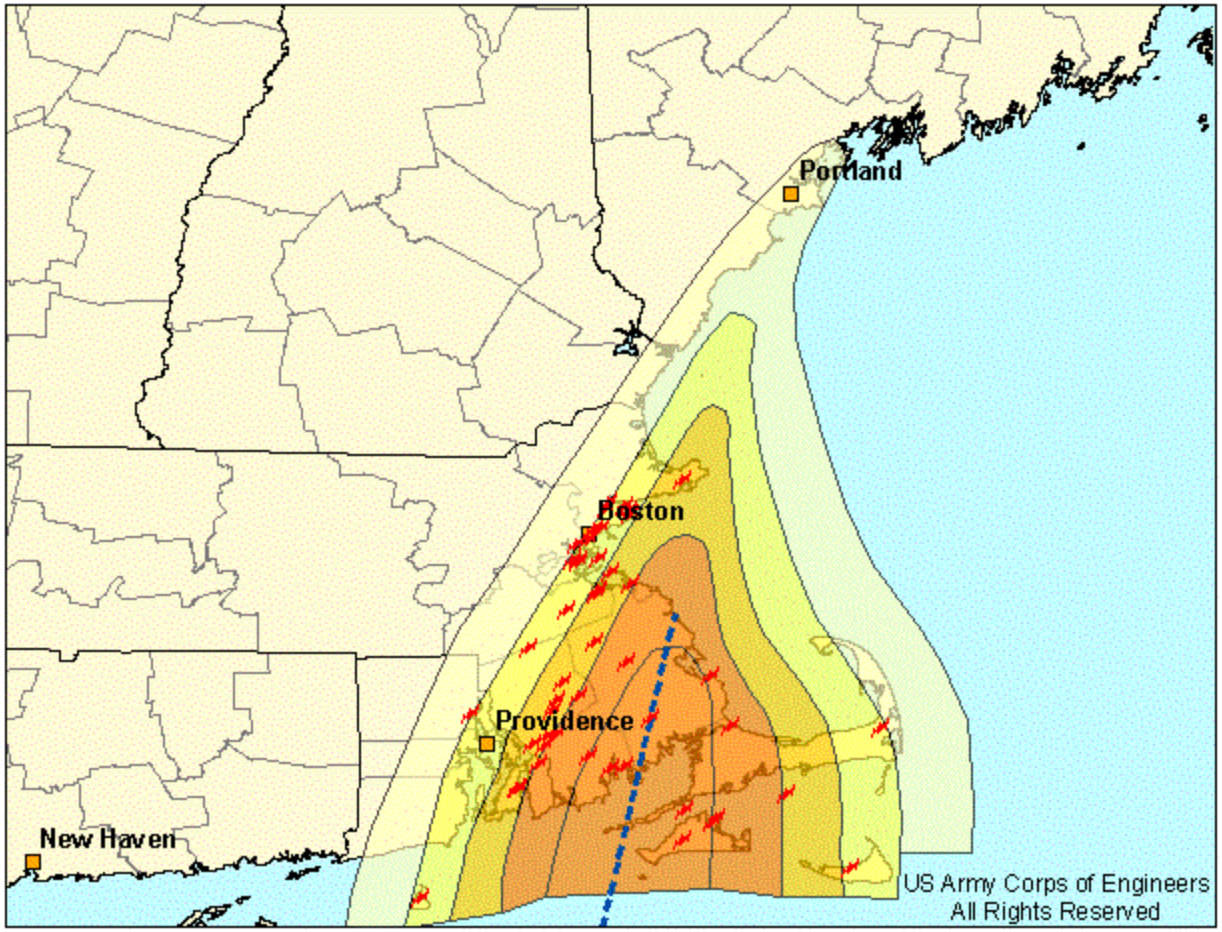
Hurricane NoName Airports	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 14 of 23

US Army Corps of Engineers

Hurricane NoName Electric Power Plants

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Most Probable Landfall Electric Power Plants Inside Hurricane Force Winds

Massachusetts - 49
Rhode Island - 5

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Electric Power Plants
Forecast Track

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of electric power plants included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

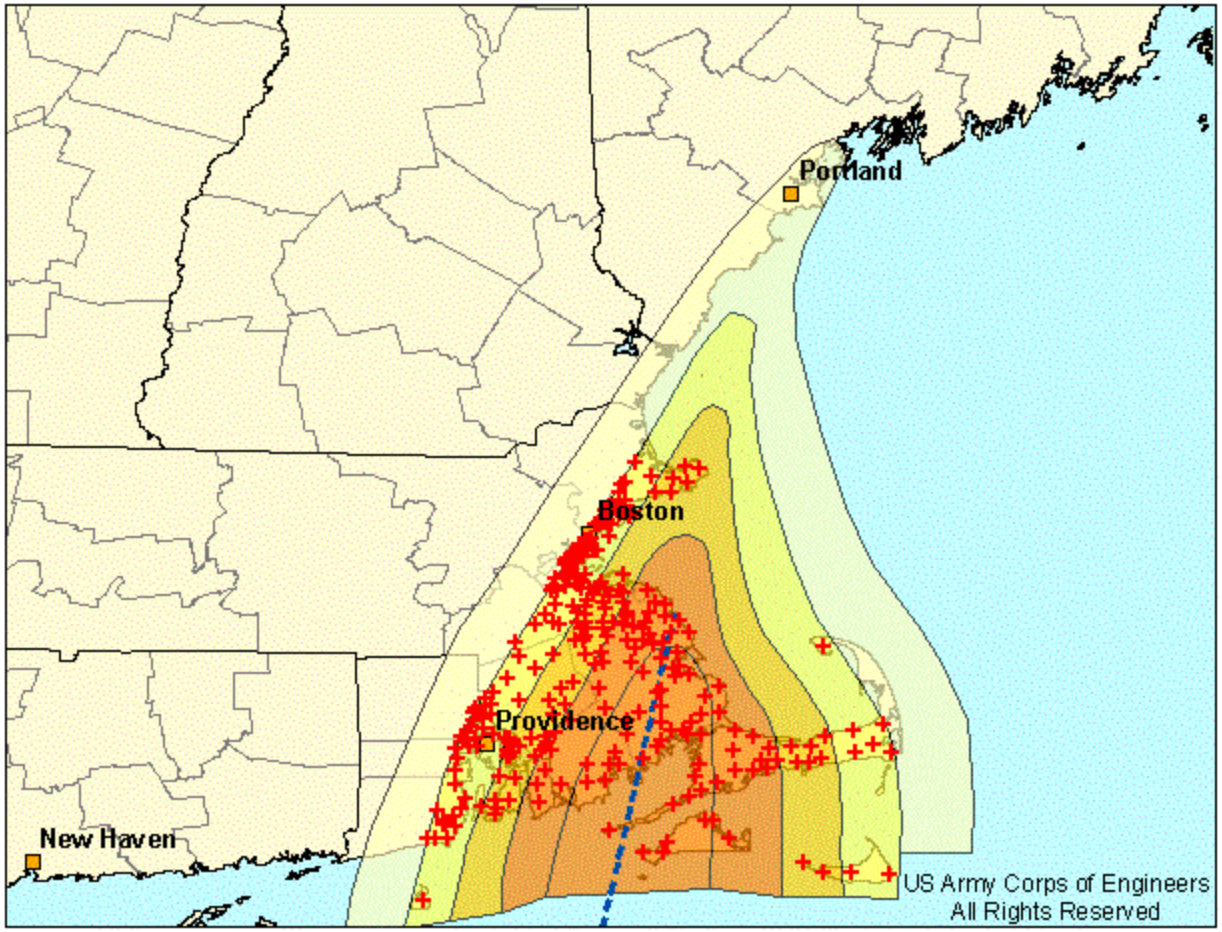
Hurricane NoName Electric Power Plants	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 15 of 23

US Army Corps of Engineers

Hurricane NoName Fire Stations

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

+ Fire Stations

Forecast Track

Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Massachusetts - 224
Rhode Island - 55

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

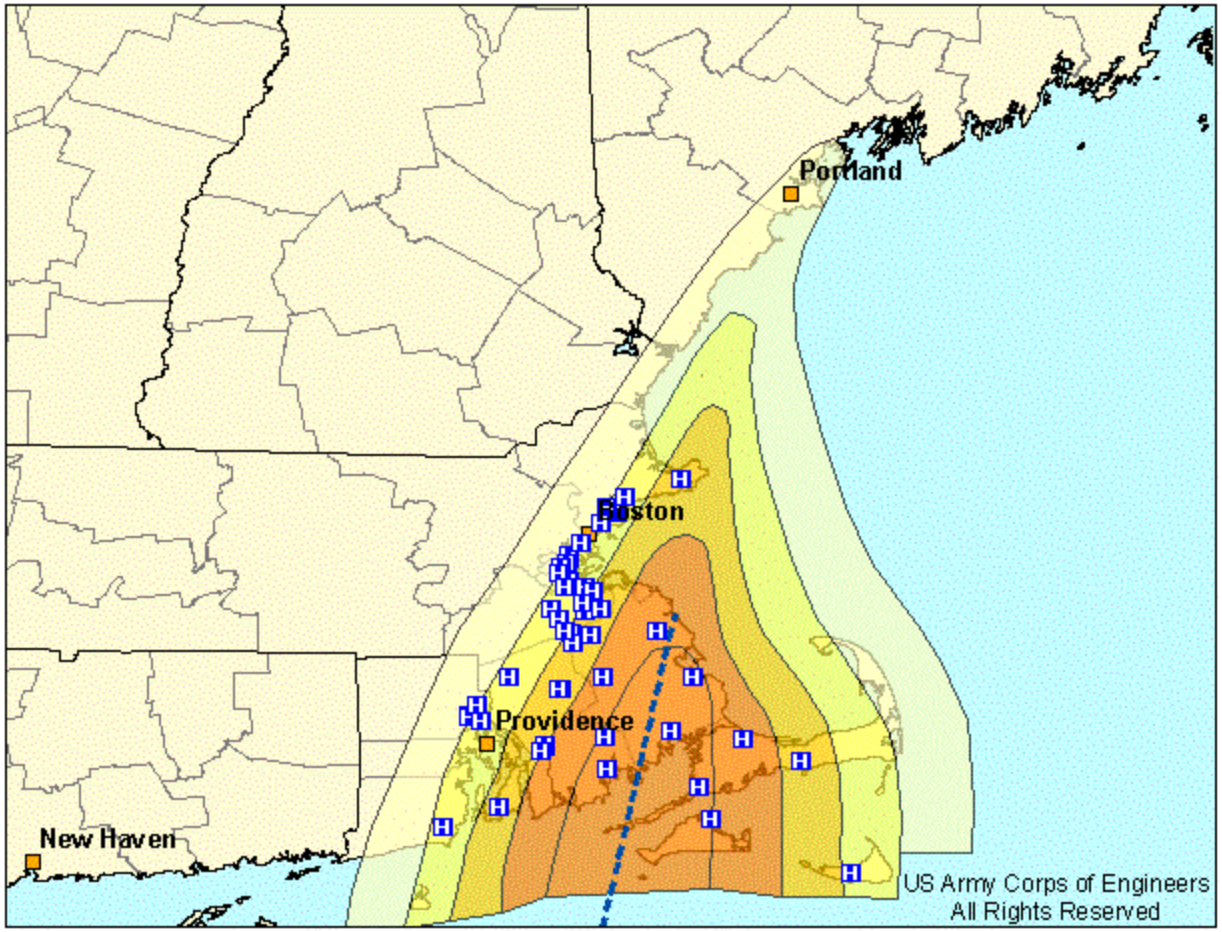
Hurricane NoName Fire Stations	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 16 of 23

US Army Corps of Engineers

Hurricane NoName Hospitals

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Most Probable Landfall Hospitals Inside Hurricane Force Winds

Massachusetts - 46
Rhode Island - 6

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

H Hospitals
Forecast Track

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

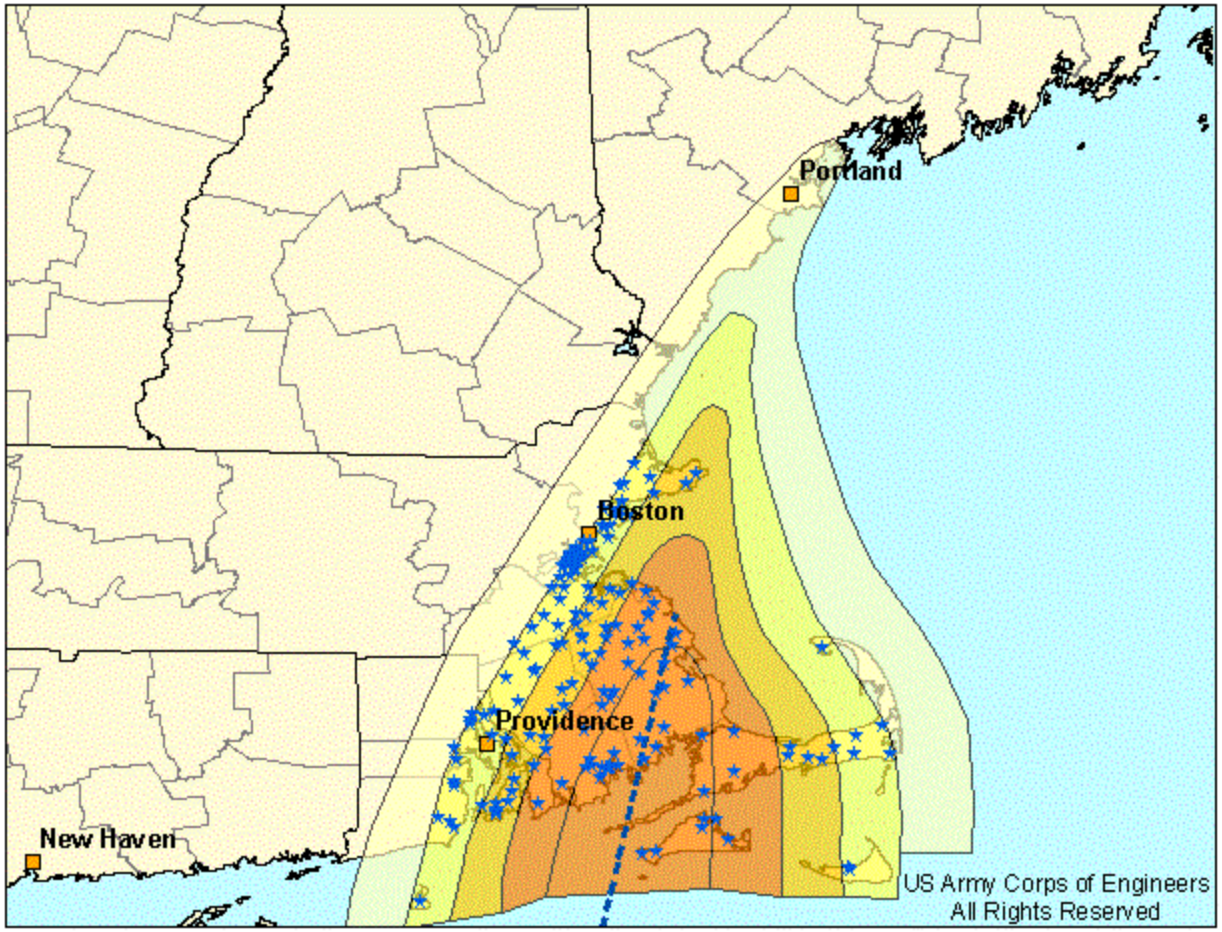
Hurricane NoName Hospitals	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 17 of 23

US Army Corps of Engineers

Hurricane NoName Law Enforcement

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Massachusetts - 153
Rhode Island - 26

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

★ Law Enforcement
Forecast Track

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

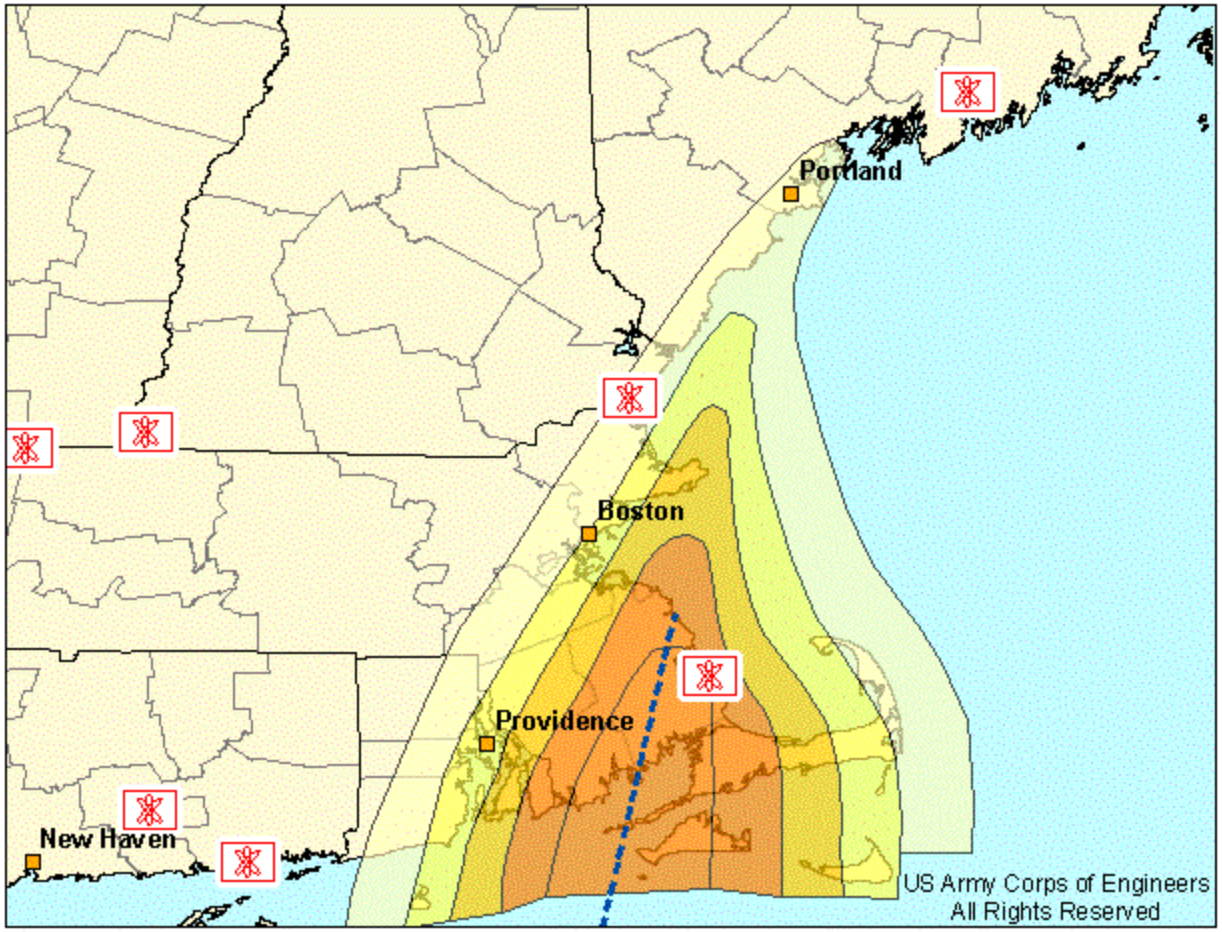
Hurricane NoName Law Enforcement	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 18 of 23

US Army Corps of Engineers

Hurricane NoName Nuclear Plants

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Nuclear Plants

Forecast Track

Most Probable Landfall Nuclear Plants Inside Hurricane Force Winds

Massachusetts - 1

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of nuclear plants included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane NoName Nuclear Plants	
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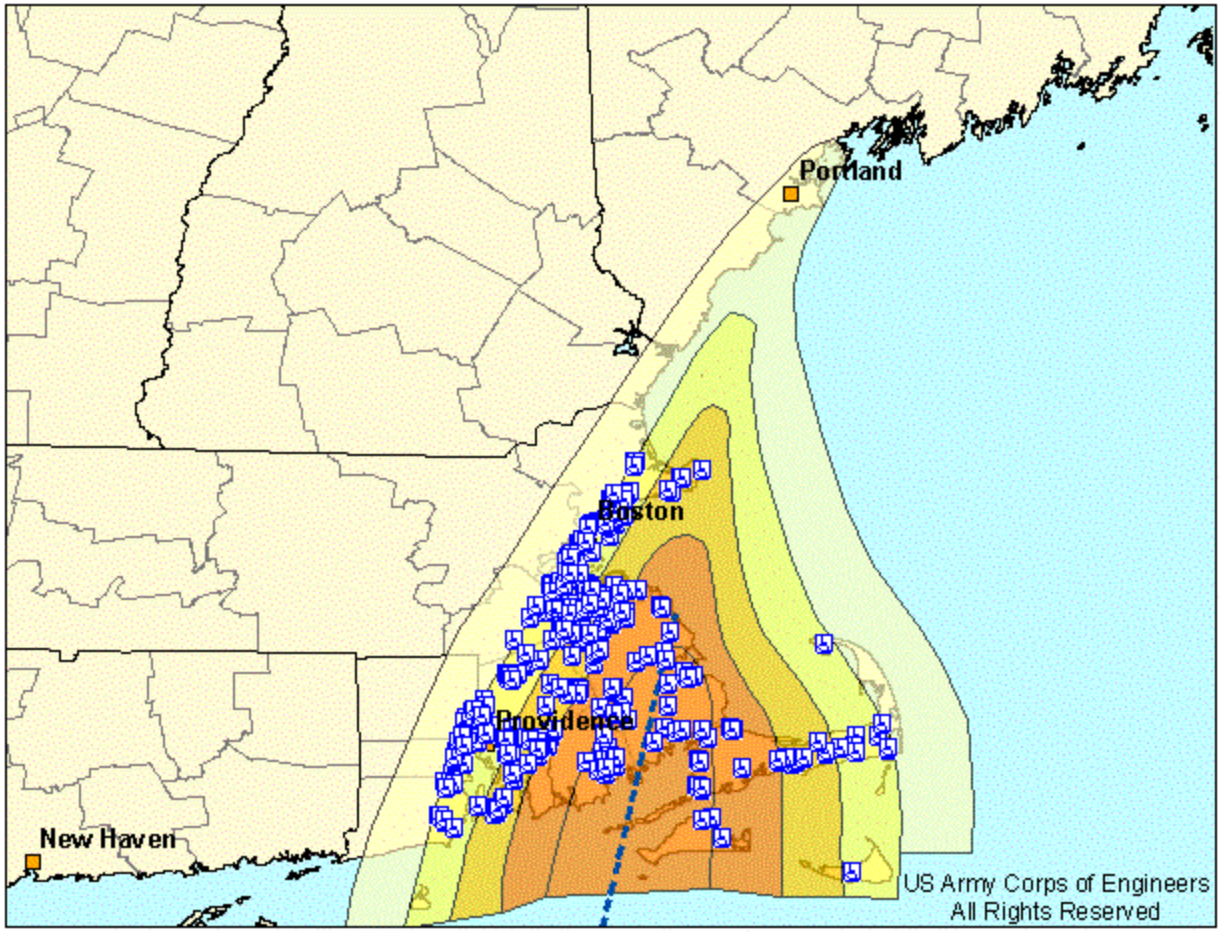
Sources: HURREVAC LRL-DEBRIS	Page 19 of 23

US Army Corps of Engineers

Hurricane NoName Nursing Homes

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Nursing Homes

Forecast Track

Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Massachusetts - 310
Rhode Island - 91

Model results per County on following page

This model is based on a Category 3 storm making landfall near New Bedford, MA.

Information provided on this page displays a Category 3 storm making landfall near New Bedford, MA. These projections are based on information from the NHC (1430 EDT 06/05/2008) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

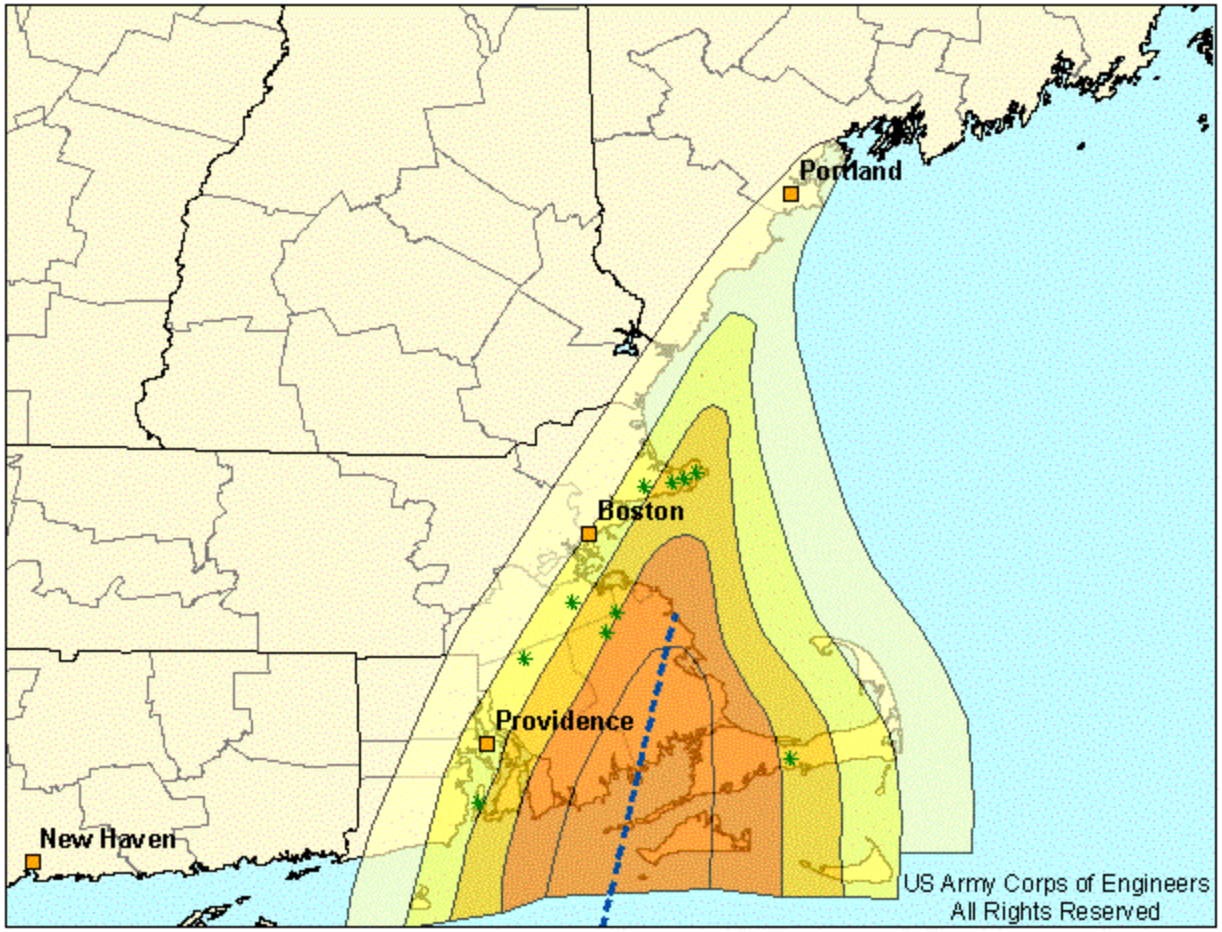
Hurricane NoName Nursing Homes	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 20 of 23

US Army Corps of Engineers

Hurricane NoName Potable Water

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Potable Water

Forecast Track

Most Probable Landfall Potable Water Inside Hurricane Force Winds

Massachusetts - 9
Rhode Island - 1

Model results per County on following page

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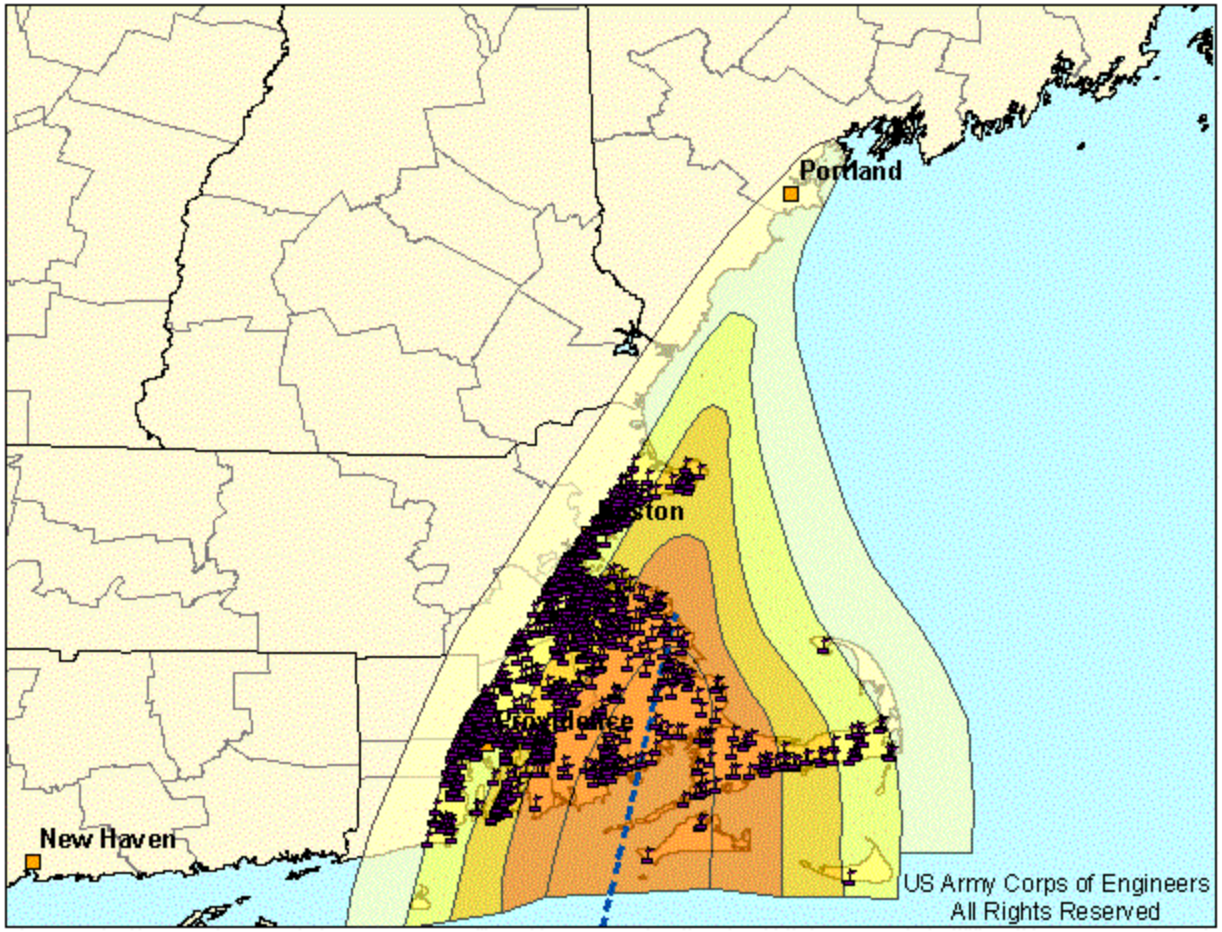
Hurricane NoName Potable Water	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 21 of 23

US Army Corps of Engineers

Hurricane NoName Schools

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Schools

Forecast Track

Most Probable Landfall Schools Inside Hurricane Force Winds

Massachusetts - 818
Rhode Island - 179

Model results per County on following page

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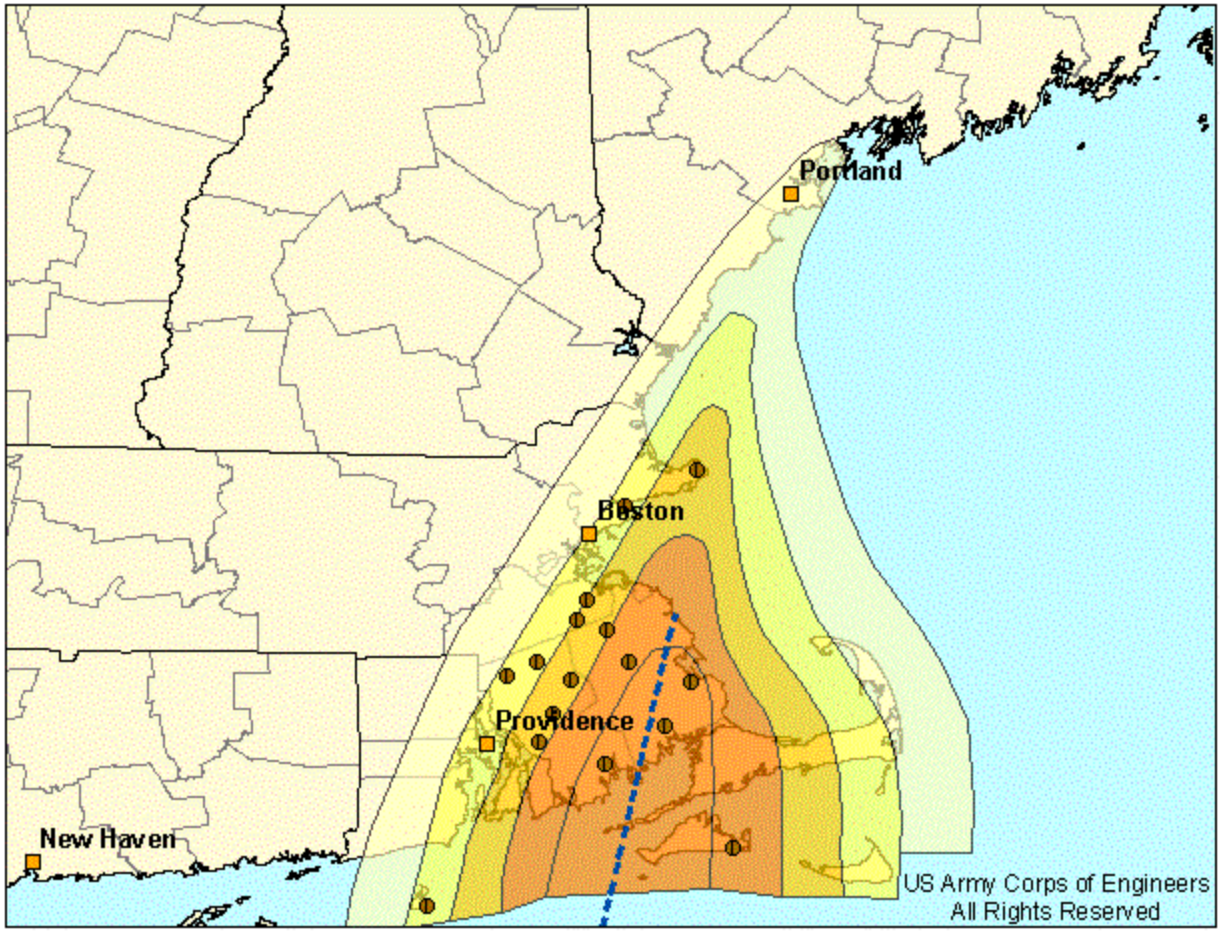
Hurricane NoName Schools	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 22 of 23

Hurricane NoName Sewage Treatment Plants

US Army Corps of Engineers

Landfall Expected In About 24 Hours

For Planning Purposes Only!



0 100 200 Miles

Sewage Treatment Plants

Forecast Track

Most Probable Landfall Sewage Treatment Plants Inside Hurricane Force Winds

Massachusetts - 16
Rhode Island - 1

Model results per County on following page

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The number of sewage treatment plants included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

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Hurricane NoName Sewage Treatment Plants	
Generated By: Siemsen, LRL 1500 EDT 06/05/2008	
Sources: HURREVAC LRL-DEBRIS	Page 23 of 23